

## CLAIMS

1. A method of preparing a cartilage, comprising adhering cell masses onto the surface of a carrier shaped into a desired form and culturing the cell masses under conditions which induce  
5 differentiation of the cell masses into a cartilage tissue.
2. A method of preparing an artificial joint, comprising adhering cell masses onto the surface of a carrier shaped into a form of a desired joint and culturing the cell masses under conditions which induce differentiation of the cell masses into a cartilage tissue.
- 10 3. The method according to claim 1 or 2, wherein the joint surface is formed with the cells, matrices produced by the cells or a combination thereof.
4. The method according to claim 1 or 2, wherein the carrier has micropores.
- 15 5. The method according to claim 1 or 2, wherein the cells are mesenchymal stem cells or chondrocytes.
6. The method according to claim 1 or 2, wherein the culture is performed *ex vivo* and in the  
20 presence of a growth factor(s).